

Examiner: Ian Dang

Sheet 1 of 1

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-133US1	Application No. 10/509,343
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Ryoichi Saitoh et al.	
		Filing Date September 28, 2004	Group Art Unit 1647

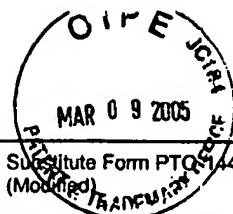
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/I.D./	AA	6,270,978	08/07/2001	Bright et al.	435	7.1	01/31/1997
	AB						

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
	AC						<input type="checkbox"/> Yes <input type="checkbox"/> No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	AD	Zhou X. et al., "Characterization of an oligopeptide transporter in renal lysosomes", Biochim Biophys Acta, Vol. 1466(1-2), pages 372-378 (2000).
/I.D./	AE	Lee VHL et al., "Biopharmaceutics of transmucosal peptide and protein drug administration: role of transport mechanisms with a focus on the involvement of PepT1", J. Control Release, Vol. 62(1-2), pages 129-140 (1999).

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Substitute Disclosure Form (PTO-1449)



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	BA						
	BB						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/I.D./	BC	WO 03/083116.A1	10/09/2003	WIPO			X	
/I.D./	BD	WO 98/46777	10/22/1998	WIPO				
	BE							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	BF	Loisel TP et al., "Recovery of homogeneous and functional β_2 -adrenergic receptors from extracellular baculovirus particles", Nat Biotechnol, Vol. 15(12), pages 1300-1304 (1997).
	BG	Mangor JT et al., "A GP64-Null Baculovirus Pseudotyped with Vesicular Stomatitis Virus G Protein", Journal of Virology, Vol. 75(6), pages 2544-2556 (2001).
	BH	Szakács G et al., "Characterization of the ATPase Cycle of Human ABCA1: Implications for Its Function as a Regulator Rather Than an Active Transporter", Biochem Biophys Res Commun, Vol. 288(5), pages 1258-1264 (2001).
✓	BI	Noe J et al., "Characterization of the Mouse Bile Salt Export Pump Overexpressed in the Baculovirus System", Hepatology, Vol. 33(5), pages 1223-1231 (2001).

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U.S. Patent Documents							
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	CA						

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
	CB						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	CC	Sakaguchi T. et al., "The Ion Channel Activity of the Influenza Virus M2 Protein Affects Transport through the Golgi Apparatus", J Cell Biol., Vol. 133(4), pages 733-747 (1996).
/I.D./	CD	Mikhailov MV et al., "Expression of functionally active ATP-sensitive K-channels in insect cells using baculovirus", FEBS Lett, Vol. 429(3), pages 390-394 (1998).
/I.D./	CE	Strehlow D. et al., "Retroviral membrane display of apoptotic effector molecules", Proc Natl Acad Sci USA, Vol. 97(8), pages 4209-4214 (2000).

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	AB						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/I.D./	AC	WO 03/033024	04/24/2003	WIPO			X	
	AD	WO 03/104453	12/18/2003	WIPO			Abstract only	
	AE	WO 03/047621	06/12/2003	WIPO			X	
	AF	WO 97/19919	06/05/1997	WIPO				
	AG	AU 9676557	06/19/1997	Australia				
↓	AH	KR 99071666		Korea				

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/I.D./	AI	Sun D. et al., "Drug Inhibition of Gly-Sar Uptake and hPepT1 Localization using hPepT1-GFP Fusion Protein", AAPS PharmSci., Vol. 3(1), pages 1-9 (2001).
	AJ	Sai Y. et al., "Immunolocalization and pharmacological relevance of oligopeptide transporter PepT1 in intestinal absorption of β -lactam antibiotics", FEBS Lett, Vol. 392(1), pages 25-29 (1996).
	AK	Basu SK et al., "Development and Utility of Anti-PepT1 Anti-Peptide Polyclonal Antibodies", Pharmaceutical Research, Vol. 15(2), pages 338-342 (1998).
	AL	Gonzalez DE et al., "An Oligopeptide Transporter Is Expressed at High Levels in the Pancreatic Carcinoma Cell Lines AsPc-1 and Capan-2", Cancer Res., Vol. 58(3), pages 519-525 (1998).
	AM	Knutter et al., "A Novel Inhibitor of the Mammalian Peptide Transporter PEPT1", Biochemistry, Vol. 40(14), pages 4454-4488 (2001).
	AN	Mrsny RJ., "Oligopeptide Transporters as Putative Therapeutic Targets for Cancer Cells", Pharm Res. Vol. 15(6), pages 816-818 (1998).
	AO	Nakanishi T. et al., "Cancer Cell-Targeted Drug Delivery Utilizing Oligopeptide Transport Activity", Int. J. Cancer, Vol. 88(2), pages 274-280 (2000).
	AP	Sugano K. et al., Quantitative Structure-Intestinal Permeability Relationship of Benzamidine Analogue Thrombin Inhibitor", Bioorg Med. Chem. Lett, Vol. 10(17), pages 1939-1942 (2000).
↓	AQ	Terada T. et al., Tanpakushitsu Kakusan Koso (Protein, nucleic acid and enzyme), Vol. 46(5), pages 621-628 (2001) (Concise explanation in English enclosed).

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(37 CFR §1.98(b))			

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/I.D./	AA	5,500,346	3/19/1996	Bright et al.			
↓	AB	5,849,525	12/15/1998	Hediger			
	AC	6,270,978	08/07/2001	Bright et al.			
	AD	6,713,278	03/30/2004	Bouvier et al.			
	AE	2005/0004227	01/06/2005	Saitoh			
	AF	2005/0222391	10/06/2005	Kodama et al.			
↓	AG	2005/0281825	12/22/2005	Kodama et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
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							Yes	No
/I.D./	AH	JP 6-261761	09/20/1994	Japan			X	
↓	AI	JP 11-172	01/06/1999	Japan			X	
↓	AJ	WO 00/28016	05/18/2000	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	AK	Basu et al., "Screening of Anti-PepT1 Antibodies Using Indirect ELISA," <i>Pharmaceutical Research</i> , 13(9 Suppl.):S-37, Abstract No. APQ 1137 (1996)
↓	AL	Blissard et al., "Location, Sequence, Transcriptional Mapping, and Temporal Expression of the gp64 Envelope Glycoprotein Gene of the <i>Orgyia pseudotsugata</i> Multicapsid Nuclear Polyhedrosis Virus," <i>Virology</i> , 170:537-555 (1989)
	AM	Friedman et al., "Characterization of the Intestinal Transport Parameters for Small Peptide Drugs," <i>J. Control. Release</i> , 13:141-146 (1990)
	AN	Friedman et al., "Passive and Carrier-Mediated Intestinal Absorption Components of Two Angiotensin Converting Enzyme (ACE) Inhibitor Prodrugs in Rats: Enalapril and Fosinopril," <i>Pharm. Res.</i> , 6:1043-1047 (1989)
	AO	Ganapathy et al., "Proton-coupled solute transport in the animal cell plasma membrane," <i>Curr. Opin. Cell Biol.</i> , 3:695-701 (1991)
	AP	Higgins, "ABC Transporters: From Microorganisms to Man," <i>Annu. Rev. Cell Biol.</i> , 8:67-113 (1992)
	AQ	Houdebine, "Transgenic animal bioreactors," <i>Transgenic Res.</i> , 9:305-320 (2000)
↓	AR	Kolb et al., "Insertion of a foreign gene into the β -casein locus by Cre-mediated site specific recombination," <i>Gene</i> , 227:21-31 (1999)

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(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
I.D./	AS	Lariviere et al., "Transgenic Studies of Pain and Analgesia: Mutation or Background Genotype?" <i>J. Pharmacol. Exp. Ther.</i> , 297:467-473 (2001)
	AT	Leiter, "Mice with targeted gene disruptions or gene insertions for diabetes research: problems, pitfalls, and potential solutions," <i>Diabetologia</i> , 45:296-308 (2002)
	AU	Liang et al., "Human Intestinal H ⁺ /Peptide Cotransporter. Cloning, Functional Expression, and Chromosomal Localization," <i>J. Biol. Chem.</i> , 270:6456-6463 (1995)
	AV	Lindley et al., "Production of monoclonal antibodies using recombinant baculovirus displaying gp64-fusion proteins," <i>J. Immunol. Methods</i> , 234:123-135 (2000)
	AW	Liu et al., "Molecular cloning of PEPT2, a new member of the H ⁺ /peptide cotransporter family, from human kidney," <i>Biochim. Biophys. Acta</i> , 1235:461-466 (1995)
	AX	Mancini et al., "Induction of Anti-Hepatitis B Surface Antigen (HBsAg) Antibodies in HBsAg Producing Transgenic Mice: A Possible Way of Circumventing 'Nonresponse' to HBsAg," <i>J. Med. Virol.</i> , 39:67-74 (1993)
	AY	Muranushi et al., "Transport Characteristics of Cefibuten, a New Oral Cephem, in Rat Intestinal Brush-Border Membrane Vesicles: Relationship to Oligopeptide and Amino β -Lactam Transport," <i>Pharm. Res.</i> , 6:308-312 (1989)
	AZ	Murray, "Genetic Modification of Animals in the Next Century," <i>Theriogenology</i> , 51:149-159 (1999)
	AAA	Nakashima et al., "Kinetics and Mechanism of <i>In Vitro</i> Uptake of Amino- β -Lactam Antibiotics by Rat Small Intestine and Relation to the Intact-Peptide Transport System," <i>Biochem. Pharmacol.</i> , 33:3345-3352 (1984)
	ABB	Ogihara et al., "Immuno-Localization of H ⁺ /Peptide Cotransporter in Rat Digestive Tract," <i>Biochem. Biophys. Res. Commun.</i> , 220:848-852 (1996)
	ACC	Okano et al., "H ⁺ Coupled Uphill Transport of Aminocephalosporins via the Dipeptide Transport System in Rabbit Intestinal Brush-border Membranes," <i>J. Biol. Chem.</i> , 261:14130-14134 (1986)
	ADD	Sai et al., "Selective Delivery of Peptide Anticancer Drugs via Oligopeptide Transporter Expressed in Cancer Cells," <i>Proceedings of the Millennium World Congress of Pharmaceutical Science</i> , p. 61, Abstract No. 2-2124 (April 16-20, 2000)
	AEE	Saito et al., "Cloning and Characterization of a Rat H ⁺ /Peptide Cotransporter Mediating Absorption of β -Lactam Antibiotics in the Intestine and Kidney," <i>J. Pharmacol. Exp. Ther.</i> , 275:1631-1637 (1995)
	AFF	Saito et al., "Molecular cloning and tissue distribution of rat peptide transporter PEPT2," <i>Biochim. Biophys. Acta</i> , 1280:173-177 (1996)
	AGG	Satoi et al., "Genetic Immunization of Wild-Type and Hepatitis C Virus Transgenic Mice Reveals a Hierarchy of Cellular Immune Response and Tolerance Induction against Hepatitis C Virus Structural Proteins," <i>J. Virol.</i> , 75:12121-12127 (2001)
	AHH	Shen et al., "Localization of PEPT1 and PEPT2 proton-coupled oligopeptide transporter mRNA and protein in rat kidney," <i>Am. J. Physiol.</i> , 276:F658-F665 (1999)
	AII	Sigmund, "Viewpoint: Are Studies in Genetically Altered Mice Out of Control," <i>Arterioscler. Thromb. Vasc. Biol.</i> , 20:1425-1429 (2000)
✓	AJJ	Steiner et al., "The PTR family: a new group of peptide transporters," <i>Mol. Microbiol.</i> , 16:825-834 (1995)

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	AKK	Takahashi et al., "Interaction of β -Lactam Antibiotics with H^+ Peptide Cotransporters in Rat Renal Brush-Border Membranes," <i>J. Pharmacol. Exp. Ther.</i> , 286:1037-1042 (1998)
/I.D./	ALL	Terada et al., "Characterization of Stably Transfected Kidney Epithelial Cell Line Expressing Rat H^+ Peptide Cotransporter PEPT1: Localization of PEPT1 and Transport of β -Lactam Antibiotics," <i>J. Pharmacol. Exp. Ther.</i> , 281:1415-1421 (1997)
/I.D./	AMM	Tsuchiya, "Therapeutic Antibody," Presentation, Chugai Pharmaceutical Co., Ltd., 21 pages (January 21, 2003)

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Supplemental Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Ryoichi Saitoh et al.	
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							Yes	No
/I.D./	AB	JP 8-134100	05/28/1996	Japan			X	
/I.D./	AC	JP 2001-197846	07/24/2001	Japan			X	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/I.D./	AD	Blissard et al., "Baculovirus gp64 Gene Expression: Analysis of Sequences Modulating Early Transcription and Transactivation by IE1," <i>J. Virol.</i> , 65:5820-5827 (1991)
/I.D./	AE	Karaki et al., "Production of anti-HLA class I alloantibodies using HLA-B51 transgenic mice," <i>Nihonmenekigakkaisoukai Gakujutsushuukaikiroku</i> , Abstract No. C61, p. 197 (1990) (English translation included)
/I.D./	AF	Nishimura et al., "Expression of the Human MHC, HLA-DQw6 Genes Alters the Immune Response in C57BL/6 Mice," <i>J. Immunol.</i> , 145:353-360 (1990)
/I.D./	AG	Okamoto et al., "Generation of monoclonal antibodies directed against allotypic epitopes of HLA class II antigen by utilizing HLA-DQw6 transgenic mice," <i>Nihonmenekigakkaisoukai Gakujutsushuukaikiroku</i> , Abstract No. C62, p. 197 (1990) (English translation included)

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